

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

Our Docket No.: **169.12-0609**

Date: **November 17, 2003**

First Named Inventor: **David J. Larson et al.**

Title: **HIGH MAGNETIC ANISOTROPY HARD MAGNETIC BIAS  
ELEMENT**

Express Mail No.: **EV 302262696 US**



**APPLICATION ELEMENTS**

**ADDRESS TO: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

1. ☒ Fee Calculation Sheet  
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status

3. ☒ Specification Total Pages **[24]**  
- Descriptive title of the invention  
- Cross References to Related Applications  
- Statement Regarding Fed. Sponsored R&D  
- Reference to Microfiche Appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claims  
- Abstract of the Disclosure

4. ☒ Drawings (35 U.S.C. 113) Total Sheets **[11]**

5. ☒ Oath or Declaration Total Pages **[3]**  
a. ☒ Newly Executed (original or copy)  
b. ☐ Copy from a prior application (37 C.F.R. 1.63(d) - for continuation/divisional with Box 18 completed)

**[Mark Box 5 below]**

I. ☐ **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b)

6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)  
8. Nucleotide and/or Amino Acid Sequence Submission (*If applicable, all necessary*)  
a. ☐ Computer Readable Copy (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies; or  
ii. ☐ Paper  
c. ☐ Statements verifying identify of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))  
10. ☒ 37 C.F.R. 3.73(b) Submission  
☒ Power of Attorney  
11. ☐ English Translation Document (*if applicable*)  
12. ☒ Information Disclosure Statement with copies of Citations as necessary  
13. ☐ Preliminary Amendment Total Pages ☐  
14. ☒ Return Receipt Postcard (*Should be specifically itemized*)  
15. ☐ Certified Copy of Priority document(s) (*If foreign priority is claimed*)  
16. ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Application must attach form PTO/SB/35 or its equivalent  
17. ☐ Other

18. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Division ☐ Continuation-in-part (CIP) of prior Application No.

Prior Application Information: Examiner            Group Art Unit           

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

ATTY NAME  
AND REG. NO.

**David R. Fairbairn,  
Reg. No. 26,047**

SIGNATURE:

ADDRESS

**Kinney & Lange, P.A.  
THE KINNEY & LANGE BUILDING  
312 South Third Street  
Minneapolis, MN 55415-1002**

TELEPHONE


**(612) 339-1863**

**FAX: (612) 339-6580**

FEE TRANSMITTAL		Complete if Known																																																																																																																																																																														
		Application No.																																																																																																																																																																														
		Filing Date	Herewith																																																																																																																																																																													
		First Named Inventor	David J. Larson et al.																																																																																																																																																																													
		Group Art Unit																																																																																																																																																																														
		Examiner Name																																																																																																																																																																														
Total Amount of Payment \$1,054		Atty. Docket Number	169.12-0609																																																																																																																																																																													
METHOD OF PAYMENT (Check One)		FEE CALCULATION (Continued)																																																																																																																																																																														
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account <u>No.11-0982</u> . Deposit Account Name: Kinney & Lange, P.A. A duplicate copy of this communication is enclosed		3. ADDITIONAL FEES																																																																																																																																																																														
2. <input checked="" type="checkbox"/> Check Enclosed																																																																																																																																																																																
FEE CALCULATION																																																																																																																																																																																
1. BASIC FILING FEE  <table border="0" style="width: 100%;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td><input checked="" type="checkbox"/> Utility Filing Fee</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td><input type="checkbox"/> Design Filing Fee</td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td><input type="checkbox"/> Reissue Filing Fee</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td><input type="checkbox"/> Prov. Filing Fee</td> </tr> <tr> <td colspan="5" style="text-align: right;">Subtotal (1) \$770.00</td> </tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	1001	770	2001	385	<input checked="" type="checkbox"/> Utility Filing Fee	1002	340	2002	170	<input type="checkbox"/> Design Filing Fee	1004	770	2004	385	<input type="checkbox"/> Reissue Filing Fee	1005	160	2005	80	<input type="checkbox"/> Prov. Filing Fee	Subtotal (1) \$770.00					<table border="0" style="width: 100%;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - Late filing fee or oath</td><td>*</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>*</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td>*</td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For Filing a Request for Reexamination</td><td>*</td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td>*</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td>*</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td>*</td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td>*</td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td>*</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td>*</td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td>*</td></tr> <tr><td>1814</td><td>110</td><td>2814</td><td>55</td><td>Terminal Disclaimer Fee</td><td>*</td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td>*</td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td>*</td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility/Reissue issue fee</td><td>*</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td>*</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td>*</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td>*</td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Statement</td><td>*</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>*</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td>*</td></tr> <tr> <td colspan="5" style="text-align: right;">Subtotal (3) \$40.00</td> </tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid	1051	130	2051	65	Surcharge - Late filing fee or oath	*	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	*	1053	130	1053	130	Non-English specification	*	1812	2,520	1812	2,520	For Filing a Request for Reexamination	*	1251	110	2251	55	Extension for reply within first month	*	1252	420	2252	210	Extension for reply within second month	*	1253	950	2253	475	Extension for reply within third month	*	1254	1,480	2254	740	Extension for reply within fourth month	*	1255	2,010	2255	1,005	Extension for reply within fifth month	*	1402	330	2402	165	Filing a brief in support of an appeal	*	1403	290	2403	145	Request for oral hearing	*	1814	110	2814	55	Terminal Disclaimer Fee	*	1452	110	2452	55	Petition to revive - unavoidable	*	1453	1,330	2453	665	Petition to revive - unintentional	*	1501	1,330	2501	665	Utility/Reissue issue fee	*	1502	480	2502	240	Design issue fee	*	1460	130	1460	130	Petitions to the Commissioner	*	1807	50	1807	50	Petitions related to provisional applications	*	1806	180	1806	180	Submission of Information Disclosure Statement	*	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40	1801	770	2801	385	Request for Continued Examination (RCE)	*	Other fee (specify) _____					*	Subtotal (3) \$40.00				
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description																																																																																																																																																																												
1001	770	2001	385	<input checked="" type="checkbox"/> Utility Filing Fee																																																																																																																																																																												
1002	340	2002	170	<input type="checkbox"/> Design Filing Fee																																																																																																																																																																												
1004	770	2004	385	<input type="checkbox"/> Reissue Filing Fee																																																																																																																																																																												
1005	160	2005	80	<input type="checkbox"/> Prov. Filing Fee																																																																																																																																																																												
Subtotal (1) \$770.00																																																																																																																																																																																
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid																																																																																																																																																																											
1051	130	2051	65	Surcharge - Late filing fee or oath	*																																																																																																																																																																											
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	*																																																																																																																																																																											
1053	130	1053	130	Non-English specification	*																																																																																																																																																																											
1812	2,520	1812	2,520	For Filing a Request for Reexamination	*																																																																																																																																																																											
1251	110	2251	55	Extension for reply within first month	*																																																																																																																																																																											
1252	420	2252	210	Extension for reply within second month	*																																																																																																																																																																											
1253	950	2253	475	Extension for reply within third month	*																																																																																																																																																																											
1254	1,480	2254	740	Extension for reply within fourth month	*																																																																																																																																																																											
1255	2,010	2255	1,005	Extension for reply within fifth month	*																																																																																																																																																																											
1402	330	2402	165	Filing a brief in support of an appeal	*																																																																																																																																																																											
1403	290	2403	145	Request for oral hearing	*																																																																																																																																																																											
1814	110	2814	55	Terminal Disclaimer Fee	*																																																																																																																																																																											
1452	110	2452	55	Petition to revive - unavoidable	*																																																																																																																																																																											
1453	1,330	2453	665	Petition to revive - unintentional	*																																																																																																																																																																											
1501	1,330	2501	665	Utility/Reissue issue fee	*																																																																																																																																																																											
1502	480	2502	240	Design issue fee	*																																																																																																																																																																											
1460	130	1460	130	Petitions to the Commissioner	*																																																																																																																																																																											
1807	50	1807	50	Petitions related to provisional applications	*																																																																																																																																																																											
1806	180	1806	180	Submission of Information Disclosure Statement	*																																																																																																																																																																											
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40																																																																																																																																																																											
1801	770	2801	385	Request for Continued Examination (RCE)	*																																																																																																																																																																											
Other fee (specify) _____					*																																																																																																																																																																											
Subtotal (3) \$40.00																																																																																																																																																																																
2. EXTRA CLAIM FEES  <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th>Number Claims</th> <th>Prior**</th> <th>Extra</th> <th>Fee from Below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td><u>24</u></td> <td>- <u>20</u></td> <td>= <u>4</u> x</td> <td><u>18</u></td> <td>= <u>72</u></td> </tr> <tr> <td>Indep.</td> <td><u>5</u></td> <td>- <u>3</u></td> <td>= <u>2</u> x</td> <td><u>86</u></td> <td>= <u>172</u></td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td></td> <td></td> <td>* = *</td> <td></td> </tr> </tbody> </table> <p>**Insert 3 and 20, or number previously paid if greater; Reissue see below</p> <table border="0" style="width: 100%;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple Dependent Claim</td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>Reissue Independent Claims Over Original Patent</td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> </tr> <tr> <td colspan="5" style="text-align: right;">Subtotal (2) \$244.00</td> </tr> </tbody> </table>			Number Claims	Prior**	Extra	Fee from Below	Fee Paid	Total	<u>24</u>	- <u>20</u>	= <u>4</u> x	<u>18</u>	= <u>72</u>	Indep.	<u>5</u>	- <u>3</u>	= <u>2</u> x	<u>86</u>	= <u>172</u>	Multiple Dependent Claims				* = *		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Description	1202	18	2202	9	Claims in excess of 20	1201	86	2201	43	Independent claims in excess of 3	1203	290	2203	145	Multiple Dependent Claim	1204	86	2204	43	Reissue Independent Claims Over Original Patent	1205	18	2205	9	Reissue claims in excess of 20 and over original patent	Subtotal (2) \$244.00																																																																																																																								
	Number Claims	Prior**	Extra	Fee from Below	Fee Paid																																																																																																																																																																											
Total	<u>24</u>	- <u>20</u>	= <u>4</u> x	<u>18</u>	= <u>72</u>																																																																																																																																																																											
Indep.	<u>5</u>	- <u>3</u>	= <u>2</u> x	<u>86</u>	= <u>172</u>																																																																																																																																																																											
Multiple Dependent Claims				* = *																																																																																																																																																																												
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Description																																																																																																																																																																												
1202	18	2202	9	Claims in excess of 20																																																																																																																																																																												
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																																																												
1203	290	2203	145	Multiple Dependent Claim																																																																																																																																																																												
1204	86	2204	43	Reissue Independent Claims Over Original Patent																																																																																																																																																																												
1205	18	2205	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																																												
Subtotal (2) \$244.00																																																																																																																																																																																

Signature David R. Fairbairn Reg. No. 26,047

Date 11/17/03 Deposit Account No. 11-0982

 <div style="display: inline-block; transform: rotate(-90deg); transform-origin: left top; white-space: nowrap;"> 17681 U.S. PTO 11/17/03 </div>		<b>Compleat if Known</b>	
		Application No.	
		Filing Date	
		First Named Inventor	
		Group Art Unit	
Examiner Name			
Total Amount of Payment \$1,054		Atty. Docket Number	
169.12-0609			

<p style="text-align: center;"><b>METHOD OF PAYMENT (Check One)</b></p> <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account <u>No.11-0982</u>. Deposit Account Name: Kinney &amp; Lange, P.A. A duplicate copy of this communication is enclosed</p> <p>2. <input checked="" type="checkbox"/> Check Enclosed</p>	<p style="text-align: center;"><b>FEE CALCULATION (Continued)</b></p> <p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - Late filing fee or oath</td><td>*</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>*</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td>*</td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For Filing a Request for Reexamination</td><td>*</td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td>*</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td>*</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td>*</td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td>*</td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td>*</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td>*</td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td>*</td></tr> <tr><td>1814</td><td>110</td><td>2814</td><td>55</td><td>Terminal Disclaimer Fee</td><td>*</td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td>*</td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td>*</td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility/Reissue issue fee</td><td>*</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td>*</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td>*</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td>*</td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Statement</td><td>*</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>*</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td>*</td></tr> <tr><td colspan="5" style="text-align: right;">Subtotal (3) \$40.00</td></tr> </tbody> </table>	Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid	1051	130	2051	65	Surcharge - Late filing fee or oath	*	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	*	1053	130	1053	130	Non-English specification	*	1812	2,520	1812	2,520	For Filing a Request for Reexamination	*	1251	110	2251	55	Extension for reply within first month	*	1252	420	2252	210	Extension for reply within second month	*	1253	950	2253	475	Extension for reply within third month	*	1254	1,480	2254	740	Extension for reply within fourth month	*	1255	2,010	2255	1,005	Extension for reply within fifth month	*	1402	330	2402	165	Filing a brief in support of an appeal	*	1403	290	2403	145	Request for oral hearing	*	1814	110	2814	55	Terminal Disclaimer Fee	*	1452	110	2452	55	Petition to revive - unavoidable	*	1453	1,330	2453	665	Petition to revive - unintentional	*	1501	1,330	2501	665	Utility/Reissue issue fee	*	1502	480	2502	240	Design issue fee	*	1460	130	1460	130	Petitions to the Commissioner	*	1807	50	1807	50	Petitions related to provisional applications	*	1806	180	1806	180	Submission of Information Disclosure Statement	*	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40	1801	770	2801	385	Request for Continued Examination (RCE)	*	Other fee (specify) _____					*	Subtotal (3) \$40.00				
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid																																																																																																																																											
1051	130	2051	65	Surcharge - Late filing fee or oath	*																																																																																																																																											
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	*																																																																																																																																											
1053	130	1053	130	Non-English specification	*																																																																																																																																											
1812	2,520	1812	2,520	For Filing a Request for Reexamination	*																																																																																																																																											
1251	110	2251	55	Extension for reply within first month	*																																																																																																																																											
1252	420	2252	210	Extension for reply within second month	*																																																																																																																																											
1253	950	2253	475	Extension for reply within third month	*																																																																																																																																											
1254	1,480	2254	740	Extension for reply within fourth month	*																																																																																																																																											
1255	2,010	2255	1,005	Extension for reply within fifth month	*																																																																																																																																											
1402	330	2402	165	Filing a brief in support of an appeal	*																																																																																																																																											
1403	290	2403	145	Request for oral hearing	*																																																																																																																																											
1814	110	2814	55	Terminal Disclaimer Fee	*																																																																																																																																											
1452	110	2452	55	Petition to revive - unavoidable	*																																																																																																																																											
1453	1,330	2453	665	Petition to revive - unintentional	*																																																																																																																																											
1501	1,330	2501	665	Utility/Reissue issue fee	*																																																																																																																																											
1502	480	2502	240	Design issue fee	*																																																																																																																																											
1460	130	1460	130	Petitions to the Commissioner	*																																																																																																																																											
1807	50	1807	50	Petitions related to provisional applications	*																																																																																																																																											
1806	180	1806	180	Submission of Information Disclosure Statement	*																																																																																																																																											
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40																																																																																																																																											
1801	770	2801	385	Request for Continued Examination (RCE)	*																																																																																																																																											
Other fee (specify) _____					*																																																																																																																																											
Subtotal (3) \$40.00																																																																																																																																																

<b>FEE CALCULATION</b>					
<b>1. BASIC FILING FEE</b>					
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	
1001	770	2001	385	<input checked="" type="checkbox"/> Utility Filing Fee	
1002	340	2002	170	<input type="checkbox"/> Design Filing Fee	
1004	770	2004	385	<input type="checkbox"/> Reissue Filing Fee	
1005	160	2005	80	<input type="checkbox"/> Prov. Filing Fee	
Subtotal (1) \$770.00					
<b>2. EXTRA CLAIM FEES</b>					
	Number Claims	Prior**	Extra	Fee from Below	Fee Paid
Total	24	-	20	= 4 x 18 =	72
Indep.	5	-	3	= 2 x 86 =	172
Multiple Dependent Claims				* =	*
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Description	
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple Dependent Claim	
1204	86	2204	43	Reissue Independent Claims Over Original Patent	
1205	18	2205	9	Reissue claims in excess of 20 and over original patent	
Subtotal (2) \$244.00					

Signature David R. Fairbairn Reg. No. 26,047

Date 11/17/03 Deposit Account No. 11-0982